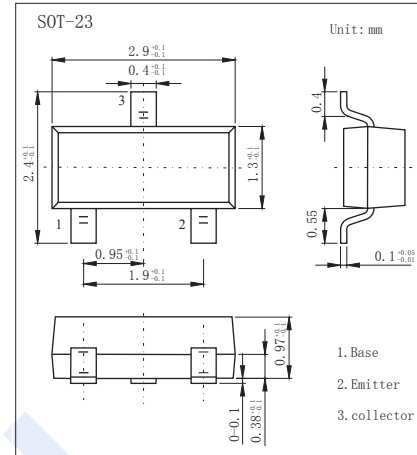


NPN Transistors

2SC3392-HF

■ Features

- High breakdown voltage
- Large current capacity and high fr.
- High-Speed Switching Applications
- Complementary to 2SA1338-HF
- Pb-Free Package May be Available. The G-Suffix Denotes a Pb-Free Lead Finish



■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CB0}	60	V
Collector - Emitter Voltage	V_{CE0}	50	
Emitter - Base Voltage	V_{EB0}	5	
Collector Current - Continuous	I_C	500	mA
Collector Current - Pulse	I_{CP}	800	
Collector Power Dissipation	P_C	200	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 to 150	

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V_{CB0}	$I_C = 100 \mu\text{A}$, $I_E = 0$	60			V
Collector-emitter breakdown voltage	V_{CE0}	$I_C = 1 \text{ mA}$, $R_{BE} = \infty$	50			
Emitter - base breakdown voltage	V_{EB0}	$I_E = 100 \mu\text{A}$, $I_C = 0$	5			
Collector-base cut-off current	I_{CBO}	$V_{CB} = 40 \text{ V}$, $I_E = 0$			0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = 4 \text{ V}$, $I_C = 0$			0.1	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = 100 \text{ mA}$, $I_B = 10 \text{ mA}$		0.1	0.3	V
Base - emitter saturation voltage	$V_{BE(sat)}$	$I_C = 100 \text{ mA}$, $I_B = 10 \text{ mA}$		0.8	1.2	
DC current gain	h_{FE}	$V_{CE} = 5 \text{ V}$, $I_C = 10 \text{ mA}$	90		560	
Turn-ON Time	t_{on}	$V_{CC} = 20 \text{ V}$, $I_C = 10 \text{ mA}$, $I_{B1} = 10 \text{ mA}$, $I_{B2} = 100 \text{ mA}$		70		ns
Storage Time	t_{stg}			400		
Fall Time	t_f			70		
Collector output capacitance	C_{ob}	$V_{CB} = 10 \text{ V}$, $f = 1 \text{ MHz}$		3.7		pF
Transition frequency	f_T	$V_{CE} = 10 \text{ V}$, $I_C = 50 \text{ mA}$		300		MHz

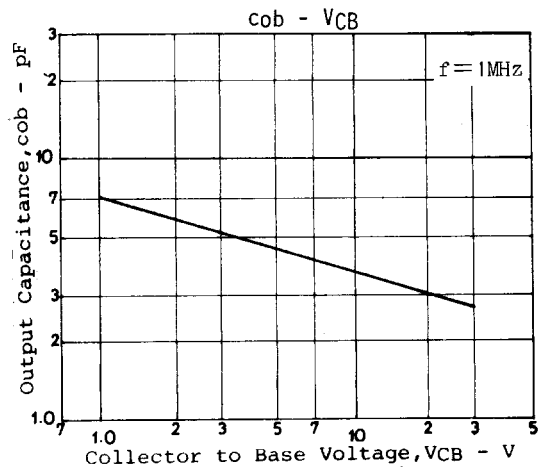
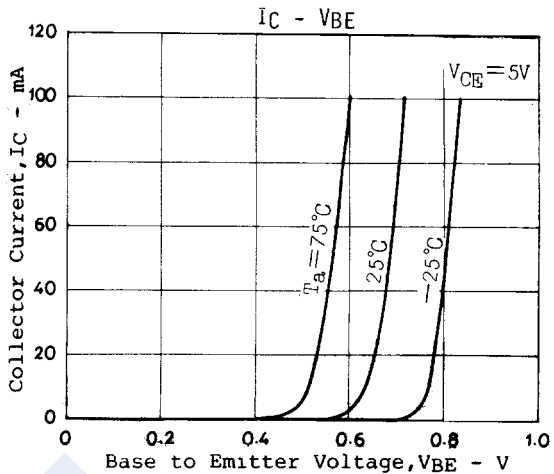
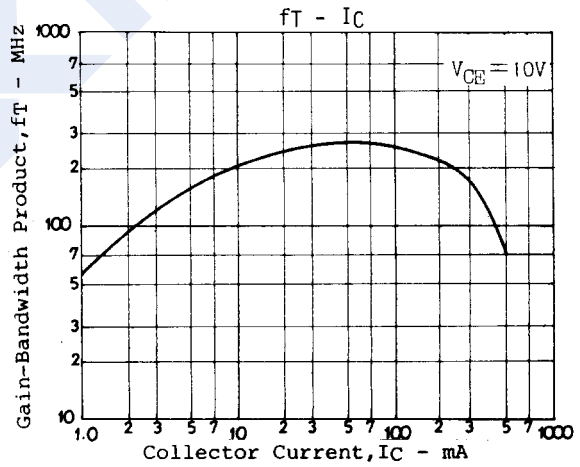
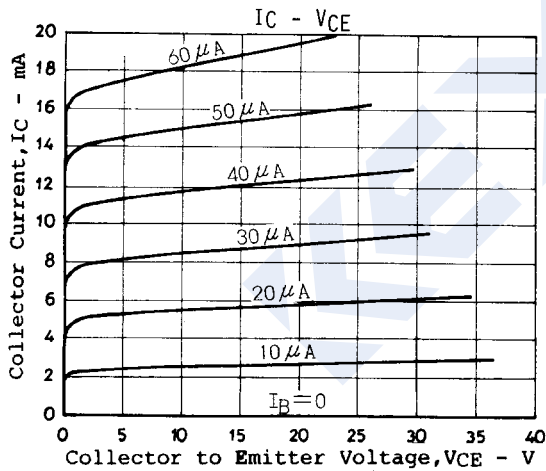
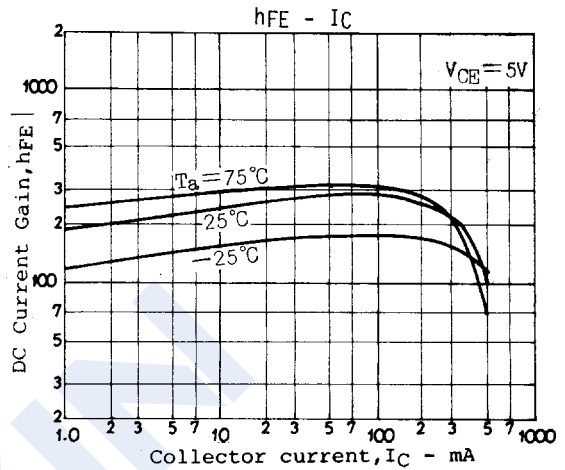
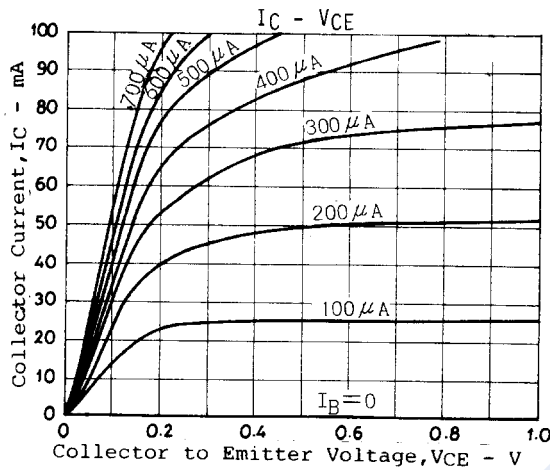
■ Classification of h_{FE}

Type	2SC3392-AY4-HF	2SC3392-AY5-HF	2SC3392-AY6-HF	2SC3392-AY7-HF
Range	100-200	140-280	200-400	280-560
Marking	AY4 _F	AY5 _F	AY6 _F	AY7 _F

NPN Transistors

2SC3392-HF

■ Typical Characteristics



NPN Transistors

2SC3392-HF

■ Typical Characteristics

